

1 / 1

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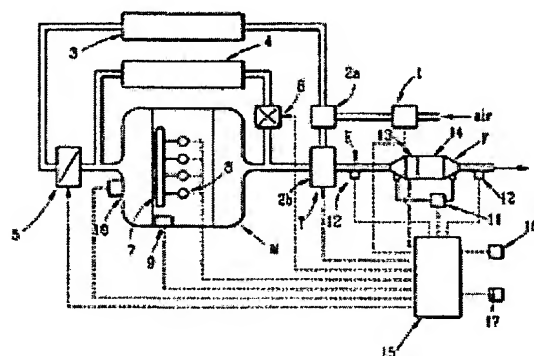
# Operational control of diesel engine exhaust particle filter

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## SYSTEME DE GESTION DU FONCTIONNEMENT D'UN FILTRE A PARTICULES ASSOCIE A UN MOTEUR DIESEL NOTAMMENT DE VEHICULE AUTOMOBILE

### Index Terms:

INTERNAL  
COMBUSTION  
ENGINE; DIESEL  
ENGINE; MOTOR  
VEHICLE; EXHAUST  
PIPE; FILTER;  
PARTICLE;  
CLOGGING; LEVEL;  
REGENERATION;  
CONTROL



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The management unit (15), controlling e.g. air intake (1) and admission (3,5), exhaust gas recirculation (EGR) (6,4), and fuel injection (7,8), also operates the regenerative unit (13) for the particle filter (14), assisted by signals received from pressure (11) and temperature (12) sensors inserted on either side of the filter. The filter pressure drop, under given engine operating conditions, indicates to the management unit the degree of fouling, and the unit determines when regeneration is required by reference to previously recorded levels. Regeneration, achievable by e.g. burning off, supplementary fuel burn, EGR variation, etc., may be intermittent, the frequency dependent on the various parameters, or continue till the monitored pressure and temperature are satisfactory. The general condition of the filter can be assessed by checking recorded variations in relevant parameters over an arbitrary distance (km run).

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